

WHAT IS CLAIMED IS:

1. An information providing apparatus for providing EPG information, comprising:

first generating means for generating first information including messages;

second generating means for generating second information including indexes to said messages; and

synthesizing means for synthesizing said first and second information as said EPG information.

2. An information providing apparatus as claimed in Claim 1, wherein:

said first synthesizing means associates said first information with a carrier wave of a prescribed frequency and said second information with carrier waves of all frequencies.

3. An information providing apparatus as claimed in Claim 1, wherein:

said second generating means generates an urgent message as said second information.

4. An information providing apparatus as claimed in Claim 1, wherein:

said second generating means generates the originator of said message and the type of the message as said second information.

5. An information providing method for providing EPG

information, comprising:

a first generating step to generate first information including messages;

a second generating step to generate second information including indexes to said messages; and

a synthesizing step to synthesize said first and second information as said EPG information.

6. An transmission medium for transmitting programs for use in an information providing apparatus, which transmits a program, comprising:

a first generating step to generate first information including messages;

a second generating step to generate second information including indexes to said messages; and

a synthesizing step to synthesize said first and second information as said EPG information.

7. An information receiving apparatus for receiving signals in which EPG information synthesized from first information including messages and second information including indexes to said messages is transmitted superimposed on video information, comprising:

receiving means for receiving signals which have been transmitted;

extracting means for extracting messages from the

signals received by said receiving means;

determining means for determining the types of said messages extracted by said extracting means; and

display control means responsive to the result of determination by said determining means for controlling the on-screen displaying of said messages in relation to said video information.

8. An information receiving method for receiving signals in which EPG information synthesized from first information including messages and second information including indexes to said messages is transmitted superimposed on video information, comprising:

a receiving step to receive signals which have been transmitted;

an extracting step to extract messages from the signals received at said receiving step;

a determining step to determine the types of said messages extracted at said extracting step; and

a display control step responsive to the result of determination at said determining step to control the on-screen displaying of said messages in relation to said video information.

9. A transmission medium for transmitting programs for use in an information receiving apparatus for receiving signals

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in which EPG information synthesized from first information including messages and second information including indexes to said messages is transmitted superimposed on video information, which transmits a program, comprising:

    a receiving step to receive signals which have been transmitted;

    an extracting step to extract messages from the signals received at said receiving step;

    a determining step to determine the types of said messages extracted at said extracting step; and

    a display control step responsive to the result of determination at said determining step to control the on-screen displaying of said messages in relation to said video information.

10. An information providing system for receiving with an information receiving apparatus EPG information provided, superimposed on video information, from an information providing apparatus, wherein:

    said information providing apparatus comprising:

        first generating means for generating first information including messages;

        second generating means for generating second information including indexes to said messages; and

        synthesizing means for synthesizing said first and

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second information as said EPG information; and  
said information receiving apparatus comprising:  
receiving means for receiving signals transmitted in  
which said EPG information is superimposed on video  
information;  
extracting means for extracting messages from the  
signals received by said receiving means; and  
display control means for controlling the on-screen  
displaying of said messages extracted by said extracting means  
in relation to said video information.

11. An information providing method for receiving with  
an information receiving apparatus EPG information provided,  
superimposed on video information, from an information  
providing apparatus, wherein:

said information providing apparatus is provided with:  
a first generating step to generate first information  
including messages;

a second generating step to generate second information  
including indexes to said messages; and

a synthesizing step to synthesize said first and second  
information as said EPG information; and

said information receiving apparatus is provided with:  
a receiving step to receive signals which have been  
transmitted;

an extracting step to extract messages from the signals received at said receiving step; and

a display control step to control the on-screen displaying of said messages extracted at said extracting step in relation to said video information.

12. A transmission medium for transmitting programs for use in an information providing system for receiving with an information receiving apparatus EPG information provided, superimposed on video information, from an information providing apparatus, wherein:

the program for said information providing apparatus is provided with:

a first generating step to generate first information including messages;

a second generating step to generate second information including indexes to said messages; and

a synthesizing step to synthesize said first and second information as said EPG information; and

the program for said information receiving apparatus is provided with:

a receiving step to receive signals which have been transmitted;

an extracting step to extract messages from the signals received at said receiving step; and

a display control step to control the on-screen  
displaying of said messages extracted at said extracting step  
in relation to said video information.

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